

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A hard handoff method from an asynchronous CDMA base station to a synchronous CDMA base station, comprising:

a first step of, at the synchronous CDMA base station, transmitting asynchronous CDMA channels including an asynchronous CDMA synchronization channel and an asynchronous CDMA common pilot channel to a mobile terminal that is in communication ~~communicated~~ with the asynchronous CDMA base station with a purpose of for synchronizing a handoff time at the synchronous CDMA base station, wherein the synchronous CDMA base station further transmits synchronous CDMA channels to another mobile terminal;

a second step of, ~~on the basis of a result of at the mobile terminal, measuring an each intensity of the asynchronous CDMA common pilot channel, the mobile terminal reporting channels outputted from the synchronous CDMA base station and the asynchronous CDMA base station to report~~ the measured result to the asynchronous CDMA base station;

a third step of, at the asynchronous CDMA base station, transmitting a handoff request message to the synchronous CDMA base station on the basis of the measured result reported to the asynchronous CDMA base station from the mobile terminal;

a fourth step of, at the synchronous CDMA base station which receives the handoff request message, transmitting an information to the asynchronous CDMA base station, wherein the information is necessary to perform the hard handoff; and

a fifth step of, at the mobile terminal, performing the hard handoff from the asynchronous CDMA base station to the synchronous CDMA base station by using in response to the information that is received from the asynchronous CDMA base station through a traffic channel from the asynchronous CDMA base station.

2. (Currently Amended) The hard handoff method of claim 1, wherein the first step comprises:

transmitting the asynchronous CDMA synchronization channel and the asynchronous CDMA common pilot channel; and

synchronizing the asynchronous CDMA synchronization channel and the asynchronous CDMA common pilot channel with a starting point of an-a synchronous pilot channel transmitted from the synchronous CDMA base station.

3. (Previously Presented) The hard handoff method of claim 1, wherein the second step comprises:

measuring an intensity of signals received from the asynchronous CDMA base station and the synchronous CDMA base station using the asynchronous CDMA synchronization channel and the asynchronous CDMA common pilot channel;

reporting the intensity of signals and an information regarding the synchronous CDMA base station if the intensity of signals received from the synchronous CDMA base station is bigger than an intensity of signals received from the asynchronous CDMA base station by a predetermined value; and

returning to the measuring step if the intensity of signals received from the synchronous CDMA base station is not bigger than the intensity of signals received from the asynchronous CDMA base station by the predetermined value.

4. (Previously Presented) The hard handoff method of claim 1, wherein the information necessary to perform the handoff includes a starting point of the hard handoff, a long code state at the starting point of the hard handoff, an offset index of a pilot PN (pseudo noise) sequence, a code channel index used in a forward traffic channel, and an offset value regarding the traffic channel.

5. (Previously Presented) The hard handoff method of claim 1, wherein the fifth step comprises:

receiving the information from the asynchronous CDMA base station through the traffic channel;

releasing the traffic channel established with the asynchronous CDMA base station and establishing a traffic channel with the synchronous CDMA base station;

exchanging an available frame between the mobile terminal and the synchronous CDMA base station through the established traffic channel and confirming a handoff completion; and

releasing resources between the asynchronous CDMA base station and a switch, the synchronous CDMA base station reporting the handoff completion to the switch.

6. (Previously Presented) The hard handoff method of claim 5, wherein the traffic channel between the mobile terminal and the synchronous CDMA base station is established using the starting point of the hard handoff, the long code state at the starting point of the hard handoff, the offset index of the pilot PN sequence, the code channel index used in the forward traffic channel, and the offset value regarding the traffic channel.

7. (Original) The hard handoff method of claim 6, wherein the starting point of the hard handoff is determined by calculating how many frames of the common pilot channel have passed at the asynchronous CDMA base station from the moment when the mobile terminal receives the information.

8. (Canceled)

9. (Currently Amended) A mobile terminal capable of performing a hard handoff from an asynchronous CDMA base station to a synchronous CDMA base station, wherein the terminal is arranged to perform steps comprising:

receiving asynchronous CDMA channels including an asynchronous CDMA synchronization channel and an asynchronous CDMA common pilot channel from the synchronous CDMA base station, while being in communication with the asynchronous CDMA base station;

reporting a measured result to the asynchronous CDMA base station on the basis of an each intensity of the asynchronous CDMA channels received from the synchronous CDMA base station and the asynchronous CDMA base station, wherein the measured result is used in order for the asynchronous CDMA base station to transmit a handoff request message to the synchronous CDMA base station which subsequently transmits a handoff information to the asynchronous CDMA base station; and

performing the hard hand off handoff to the synchronous CDMA base station by using the handoff information which is received from the asynchronous CDMA base station through a traffic channel from the asynchronous CDMA base station.

10. (Currently Amended) In a dual mode mobile terminal which selectively operates in a synchronous CDMA or an asynchronous CDMA, a hard handoff method from an asynchronous CDMA base station to a synchronous CDMA base station, comprising:

measuring an intensity of an asynchronous CDMA common pilot signal generated from the synchronous CDMA base station to be handed off and an intensity of an asynchronous common pilot signal generated from the communicated with asynchronous CDMA base station; and

sending the measured intensity of the asynchronous CDMA common pilot channel to an asynchronous CDMA base station that is in communication with the mobile terminal for deciding a handoff to the synchronous CDMA base station.

11. (Currently Amended) A CDMA telecommunication system having synchronous and asynchronous systems, the CDMA telecommunication system ~~comparing comprising~~:

an asynchronous CDMA base station operating in a 3G asynchronous CDMA network; and

a synchronous CDMA base station operating in a 2G asynchronous CDMA network, wherein the synchronous CDMA base station includes:

a) ~~an asynchronous CDMA synchronization channel in order to provide synchronization information for a mobile terminal that is in communication with the asynchronous CDMA base station~~~~step of transmitting asynchronous CDMA channels including an asynchronous CDMA synchronization channel and an asynchronous CDMA common pilot channel to the mobile terminal communicated with the asynchronous CDMA base station for synchronizing a handoff time at the synchronous CDMA base station, wherein the synchronous CDMA base station further transmits synchronous CDMA channels to other mobile terminal;~~
and

b) ~~an asynchronous CDMA common pilot channel in order for the mobile terminal to measure an intensity of the asynchronous CDMA common pilot channel~~~~step of transmitting an information to the asynchronous CDMA base station when the synchronous CDMA base station which receives the handoff request message from the asynchronous CDMA base station.~~

12. (Currently Amended) A synchronous CDMA base station operating in a 2G asynchronous CDMA network, wherein the synchronous CDMA base station includes:

a) ~~an asynchronous CDMA synchronization channel in order to provide synchronization information for a mobile terminal that is in communication with a 3G asynchronous CDMA network~~~~step of transmitting asynchronous CDMA channels including an asynchronous CDMA synchronization channel and an asynchronous CDMA common pilot channel to the mobile terminal communicated with the asynchronous CDMA base station for synchronizing a handoff time at the synchronous CDMA base station, wherein the synchronous~~

CDMA base station further transmits synchronous CDMA channels to other mobile terminal;
and

b) ~~an asynchronous CDMA common pilot channel in order for the mobile terminal to measure an intensity of the asynchronous CDMA common pilot channel~~^{step of transmitting an information to an asynchronous CDMA base station when the synchronous}
~~CDMA base station which receives a handoff request message from the asynchronous CDMA base station.~~